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(54) **MEDICAL DEVICES INCORPORATING  
FUNCTIONAL ADHESIVES**

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(\* ) Notice: Subject to any disclaimer, the term of this  
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This patent is subject to a terminal dis-  
claimer.

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See application file for complete search history.

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(57) **ABSTRACT**

A method for bonding a polymeric medical device to tissue  
is provided which includes providing a polymeric medical  
device having a plurality of reactive members of a specific  
binding pair attached on a surface of the medical device, and  
providing tissue with a plurality of complementary reactive  
members of the specific binding pair, wherein upon contact  
of the reactive members on the surface of the medical device  
with the complimentary reactive members on the tissue,  
covalent bonds are formed between the reactive members  
and the complementary reactive members, thus adhering the  
device to the tissue. A kit is provided including a polymeric  
medical device such as a patch or mesh having a plurality of  
reactive members of a specific binding pair attached to a  
surface of the device and an applicator containing a solution  
or suspension of complementary reactive members of the  
specific binding pair, the complementary reactive members  
having a functionality that will adhere them to biological  
tissue upon contact, said applicator adapted to deliver the  
solution or suspension to biological tissue.

**13 Claims, No Drawings**